

Subminiature Recorder
P-155

CONFIDENTIAL

27 April 1954

MEMORANDUM FOR THE RECORD

SUBJECT: Project Monitor at [redacted]
on Projects P-60B, P-102, P-103, P-109, P-139,
and Subminiature Recorder

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1. Time and Place of Meeting: 21-23 April at [redacted]
[redacted]

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2. Attendance:

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3. Discussion:

a. P-60B, Night Landing System, Ultraviolet

(1) Drawings and photographs of proposed lens cap and tripod holder were presented by [redacted]. A mock-up of the tripod revealed that two modifications were desirable. First, that a provision be made for the autocollimator to face directly upward in addition to the provision for facing from horizontal to 20° above the horizontal. It was also thought desirable to provide a stop to prevent the autocollimator from being rotated to face in the reverse direction. It was agreed that [redacted] would make the caps and tripod holder as shown in the drawings but with the modifications mentioned above.

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(2) The APD representative agreed to obtain information on ultraviolet sources and floodlights and any information available on similar systems being used by the Services.

b. P-102, P-103, Transducers

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b. P-102, P-103, Transducers and Actuators, Indexing and Cataloging

(1) The indexing methods and procedures were discussed in detail. The over-all pattern of the index was approved, however, the discussion revealed inconsistencies and inadequacies which were either remedied on the spot or left for further study. It was agreed that the List of Transducer Inputs and Actuator Outputs would not be divided into four alphabetized divisions (Mechanical, Electrical, Radiant, Chemical) but, rather, in just one alphabetized listing. The breakdown served no purpose and in some cases added confusion. The "active-passive" punches were removed because there is an "auxiliary power" punch which would designate an active transducer when punched zero and a passive transducer for any other value. The "auxiliary power" field would be punched so that all less than the power chosen would fall out.

(2) The project had progressed to the point where a decision had to be made on the limits of what should be included in the index. The following limits were agreed upon:

- (a) Maximum size 1000 in.³
- (b) Commercial packages only.
- (c) Commercial systems where information on sensing head is not available will list characteristics of whole system.
- (d) No classified instruments.
- (e) Parallel combinations of transducers (i.e., transducers measuring two or more input variables and combining the outputs to give signal that is a function of the two or more inputs) will not be included.
- (f) Series combinations of transducers (i.e. transducers in which the output of one is the input of the next) will be included.
- (g) Transducers will not include any electrical computation network.

(3) As a result of agreements made on the punching system, will order cards for one index and start processing these cards upon their receipt. A McBee sorter will also be ordered though feels that the device can be improved upon. 25X1 25X1

(4) requested a letter confirming the above decisions. 25X1

c. P-109, Microphone

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c. P-109, Microphone, Contact:

(1) The emphasis of this project is shifted from the development of a particular contact microphone to the study of the acoustic properties of typical wall structures and from this, to determine the desirable characteristics of contact microphones. In order to pursue this work [] is first building the instrument designed by the Bureau of Standards for measuring acoustic amplitude (NBS 2799). Approximately 6 weeks will be required to produce the instrument which will then be used to make a basic study of the acoustic properties of wall structures. This study will require approximately 3 months.

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d. P-139, Chinese Language Decoder:

(1) [] is still interested in this project. They would like to first make a preliminary study to determine the best approach to be taken on this project.

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e. Subminiature Recorder:

(1) [] presented a proposal for a study of recording techniques to determine which would lend itself best to the development of a subminiature recorder. This study will extend for 3 months with a maximum cost of about \$3500.00.

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4. Actions:

a. APD

(1) P-60B - obtain information on ultraviolet sources and floodlights developed by the Services.

(2) P-102, P-103 - Write letter to [] confirming decisions made at meeting.

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APD/TSS

JDH:maw

Distribution

Orig. - P-60B

1 - P-102

1 - P-103

1 - P-109

1 - P-139

1 - Subminiature Recorder

1 - Chrono